BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to Roads, drains and construction of culverts at Ashray layout cross roads in Ward No. 11(Kuvempunagara) in Vidyaranyapura Sub Division.**

			Estimate Cost:					**2000000.00**	
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 142 / Item No. 19.1 / PWD SR 2016-17**	Cum							
	For Drain kanaka Road Ashraya Layout		1	65.00	0.80	0.80	41.60		
	Cross Road		2	65.00	0.80	0.80	83.20		
	Ashraya Layout Grave Yard		1	85.00	1.00	1.00	85.00		
	For Road		1	65.00	5.00	0.30	97.50		
			1	65.00	5.00	0.30	97.50		
	Basic Rate	82.00					**404.80**	199.36	**80703.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		188.08							
	Area Weightage @ 6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2016-17**	Cum							
	kanaka Road Ashraya Layout Bed Concrete Drain		1	65.00	0.80	0.15	7.80		
	Cross Road		2	65.00	0.80	0.15	15.60		
	Ashraya Layout Grave Yard		1	85.00	1.00	0.15	12.75		
	For Road		1	65.00	5.00	0.15	48.75		
			1	65.00	5.00	0.15	48.75		
	Basic Rate	4867.00					**133.65**	5159.02	**689503.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
3	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2016-17**	Cum							
a	For Drain Ashraya Layout near Burial Ground		1	85.00	0.90	0.15	11.48		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Side Wall		2	85.00	0.15	0.60	15.30		
b	For Road		1	65.00	5.00	0.125	40.63		
			1	65.00	5.00	0.125	40.63		
	Basic Rate	5879.00					**108.03**	6231.74	**673184.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
4	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2016-17**	Tonne							
	For Roof, Columns @ 60 Kg / Cum		0.06	26.78			**1.61**	59413.00	**95447.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
5	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2016-17**	Sqm							
	Side Wall		2x2	85.00		0.60	204.00		
	For Road		2	65.00		0.30	39.00		
			2	65.00		0.30	39.00		
	Basic Rate	293.00					**282.00**	310.58	**87584.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
6	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.27.1, PWD SR 2016-17**	Sqm							
	For Drain		1	65.00		0.60	39.00		
			2	65.00		0.60	78.00		
	Basic Rate	937.00					**117.00**	993.22	**116207.00**
	Area Weightage @ 6%	56.22							
	Total	**993.22**							
7	KSRB 5-15 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 25 / Item No. 5.28, PWD SR 2016-17**	Sqm							
			1	65.00		0.60	39.00		
			2	65.00		0.60	78.00		

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	716.00					**117.00**	758.96	**88798.00**
	Area Weightage @ 6%	42.96							
	Total	**758.96**							
8	**Vaccum De-watering** with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2016-17**	Sqm							
			1	65.00	5.00		325.00		
			1	65.00	5.00		325.00		
	Basic Rate	90.00					650.00	97.20	**63180.00**
	Area Weightage @ 8%	7.20							
	Total	**97.20**							
9	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2016-17**	Cum							
	For drain coping		1	65.00	0.75	0.10	4.88		
			2	65.00	0.75	0.10	9.75		
	Basic Rate	5441.00					**14.63**	5767.46	**84349.00**
	Area Weightage @ 6%	326.46							
	Total	**5767.46**							
	Sub Total								**1978955.00**
	For Third Part QC inspection Charges @ 1%								**19790.00**
	Miscellaneous and other Charges	L/S							**1255.00**
								Total	**2000000.00**
Rupees Twenty Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2016-17.
3 This work included under 2015-16 POW Grants.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

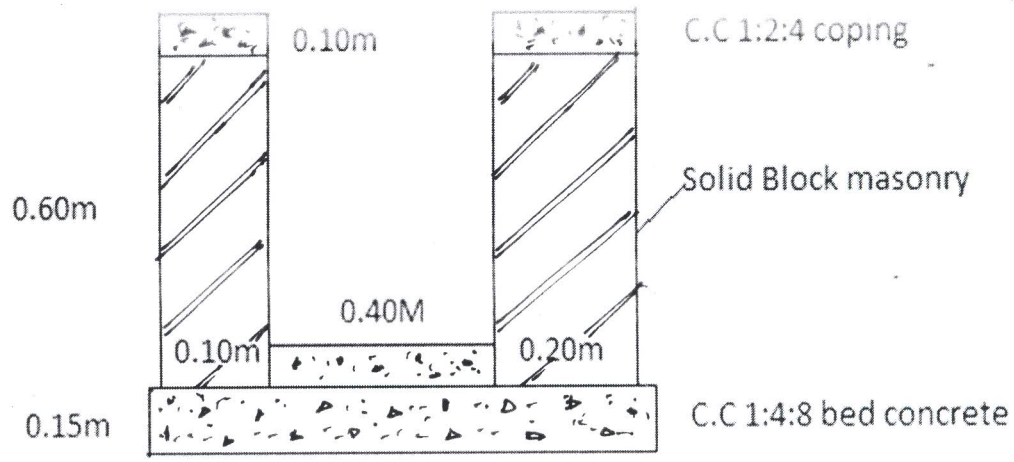
Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Administrative Approval
Accorded For ..... 20.00 Lakhs only
Head of A/C..... P1771
CER NO :..... 116 Dt:..12.01.17

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty lakhs only
Head of A/C P-1771
Div. Ref. No. 142/16-17 12/01/17
AE EE(BTP)

Name of work : Improvements to Roads drains and Constructions of Culverts at Ashraya Layout Cross roads in ward no: 11

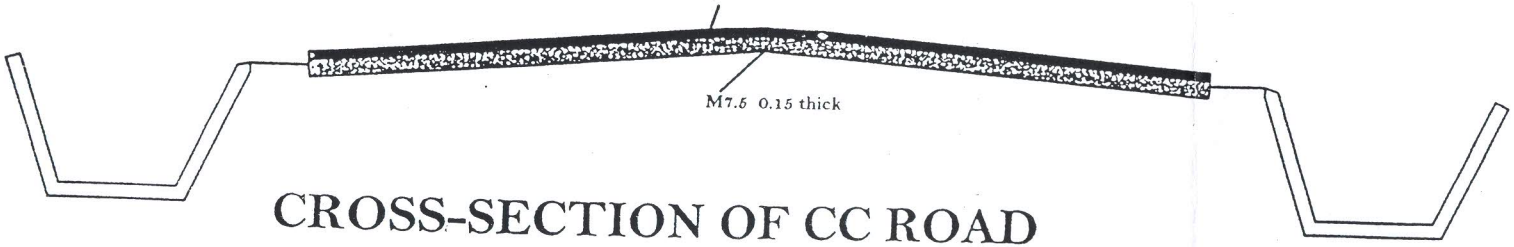


Cross section of Drain

Assistant Engineer
Ward no 11

Assistant Executive Engineer
Vidyaranyapura Sub Division

NAME OF WORK:-



CROSS-SECTION OF CC ROAD

INDEX

M7.5 1:4:8 0.15m Thick

M20 1:1.5:3 0.10m Thick

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER
VIDYARANYAPURA SUB DIVISION.